- 4. A film, sheet or coating according to claim 1, wherein the fringes have a hollow diameter ratio, which is ratio of the diameter of the hollow center at half height and the diameter at the bottom of the fringe, of 1 or lower, as determined by optical surface profilometry.
- 5. A film, sheet or coating according to claim 1, wherein the fringes have a Hollowness Index, which is calculated by multiplying the hollow depth ratio with the hollow diameter ratio, of 100 or lower, as determined by optical surface profilometry.
- 6. The film, sheet or coating according to claim 1, wherein the fringes have an aspect ratio, which is the ratio of the fringe height and the fringe diameter, of between 1 and 5.
- 7. The film, sheet, or coating according to claim 1, wherein the thermoplastic material is cured, irradiated or cross-linked.
- 8. The film, sheet, or coating according to claim 1, wherein the layer displays a surface microstructure on both sides.
- 9. The film, sheet, or coating according to claim 1, which is a mono-layer film, sheet or coating.
- 10. The film, sheet, or coating according to claim 1, which is a multi-layer film, sheet or coating.
- 11. The film, sheet, or coating according to claim 10, wherein the surface microstructure is on an outer layer.
- 12. The film, sheet, or coating according to claim 1 which is a multi-layer film, sheet or coating, wherein the surface-structured layer is an interlayer.
- 13. The film, sheet or coating according to claim 10, wherein at least on of the outer layers is a fringed layer and at least one of the inner layers is an oriented film, preferably a biaxially oriented polypropylene film.

- 14. The film, sheet or coating according to claim 13, wherein at least one of the layers is a foamed layer.
 - 15. The film, sheet, or coating according to claim 1, wherein at least one layer is elastic.
 - (16.) The film, sheet, or coating according to claim 1, which is oriented.
 - 17. The film, sheet, or coating according to claim 1, wherein at least one layer is vapor permeable and liquid impermeable.
 - 18. The film, sheet, or coating according to claim 1 which is printed or imprinted.
 - 19. The film, sheet or coating according to claim 1 wherein the surface microstructure has been subjected to a post treatment step selected from the group consisting of treatment with an abrading device, corona treatment, curing, irradiation and crosslinking.
 - 20. A composite comprising a mono-layer or multi-layer film, sheet, or coating wherein at least one layer displays a surface microstructure, which layer is a thermoplastic polymeric material and characterized by fringes, said fringes being characterized in that they are non-perforated crater-like peaks which are at least partially hollow with at least about 25 percent of the volume at the top of the peak being empty and have a height of at least about 40 microns or more, in a density of 1000 or more per square centimeter.
 - 21. The composite according to claim 20 which is a laminate.
 - 22. An article of manufacture comprising a mono-layer or multi-layer film, sheet, or coating wherein at least one layer displays a surface microstructure, which layer is a thermoplastic polymeric material and characterized by fringes, said fringes being characterized in that they are non-perforated crater-like peaks which are at least partially hollow with at least about 25 percent of the volume at the top of the peak being empty and have a height of at least about 40 microns or more, in a density of 1000 or more per square centimeter.

- 23. The article of manufacture according to claim 22, which is a glove.
- 24. The article of manufacture according to claim 22, which is a hygienic product.

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- (Amended) The article of manufacture according to claim 22, which is a medicinal collection bag[, preferably an ostomy bag].
- 26. The article of manufacture according to claim 22, which is a floor or wall covering product.
 - 27. The article of manufacture according to claim 22 which has a soft, textile-like touch.
 - 28. The article of manufacture according to claim 22 which is water repellant.
 - 29. The article article of manufacture according to claim 28 which has anti-skid properties.
- 30. The article of manufacture according to claim 22 which has enhanced carrying, capturing or storing properties.
 - 31. The article of manufacture according to claim 22 which is heat resistant.
- 32. A process for making the mono-layer or multi-layer film, sheet, or coating according to claim 1, said process comprising
 - forming a precursor film, sheet, or coating with a surface characterized by a pattern of peaks and valleys in a continuous compression molding process, and
 - subjecting said precursor to mechanical treatment comprising the application of a tractive force which is applied during release of the film, sheet or coating from a matrix surface under conditions allowing the formation of a fringed surface microstructure.

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- ____33. The process according to claim 32, wherein application of the tractive force comprises peeling the film, sheet, or coating off the matrix surface at a temperature which is at or below the Vicat softening point of the thermoplastic material and at a release angle of between 20 and 170 degrees relative to the matrix surface.
 - 34. The process according to claim 32, wherein the precursor is a foam.
- 35. Use of the film, sheet or coating according to claim 1 to make an article of manufacture having a soft, textile-like touch.
 - 36. Use of the film, sheet or coating according to claim 1 in automotive applications.
- 37. Use of the film, sheet or coating according to claim 1 to make an article which is water repellant.
 - 38. Use of the film, sheet or coating according to claim 1 for packaging.
- 39. Use of the film, sheet or coating according to claim 1 in an article with enhanced carrying, capturing or storing properties.
- 40. Use of the film, sheet or coating according to claim 1 to make an article which has anti-skid properties.
- 41. Use of the film, sheet or coating according to claim 1 to make an article which has enhanced heat resistance.
- 42. Use of the film, sheet or coating according to claim 1 to make an article which has a matte surface appearance.
 - 43. Use of the film, sheet or coating according to claim 1 as a filtration medium.